



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
PO040268	ACI001-VC	1	1	Net 30	MT-HRS-P-0.750	Hot Rolled Steel Plate 0.750" (44W) : MATERIAL: HOT ROLLED STEEL SHEET ASTM A36 OR ASTM A1011 OR 44W OR ASTM A1018			16	7/11/2018	16		S089592	Stock	7/5/2018	\$ 22.32 / ft	1		\$357.16	Acier Ouellette Inc.
		2	2		M6061T6B0.500X10.000	6061-T6 Bar .500 x 10.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft			6		6		S089593	Stock	7/5/2018	\$ 18.46 / ft	1		\$110.76	Acier Ouellette Inc.
		3	3		M6061T6B0.625X02.000	6061T6 Bar 0.625 X 2.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft			12		12		S089594	Stock	7/5/2018	\$ 6.11 / ft	1		\$73.37	Acier Ouellette Inc.
		4	4		M6061T6B0.500X00.750	6061T6 Bar 0.500 X 0.750 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft			20		20		S089595	Stock	7/5/2018	\$ 1.57 / ft	1		\$31.39	Acier Ouellette Inc.
		6	6		M6061T6B0.375X5.000	6061T6 Bar 0.375 X 5.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft						24	S089596	Stock	7/5/2018	\$ 7.61 / ft	1		\$182.66	Acier Ouellette Inc.
										Total:	74								\$574.79	



ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

CO00009643C

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

DART AEROSPACE LTD

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Customer N°
Date
Delivery date
Your order N°
Processed by
Salesman
Carrier
Credit Terme

CLI0001056
2018/06/21
2018/07/04
040268
Eric Kaehlert
OUELLETTE VALLEYFIELD
Net 30 Days

Product Description	Weight	Qty	UM	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
1 PLATE 44W 3/4 RANDOM P44-34-V 4108 1 X 4' X 4' ** CERTIFICATE ** LINE: 1 Heat: 725249 M	489.60	16.00	PT2_\$CLB							
2 FLAT ALU 1/2 X 10 6061-T6 * FAL-1210 2464 1 X 6' ** CERTIFICATE ** LINE: 2 Heat: 200191132 M	35.28	6.00	PL_\$CLB		1x6"		10'4"	V		1x4'4"
3 FLAT ALU 5/8 X 2 6061-T6 RANDOM NS FAL-582-V 8559 1 X 12' ** CERTIFICATE ** LINE: 3 AC17570-YR-2018-06-22 Heat: 23164492 M	17.64	12.00	PL_\$CLB		1x12'					
4 FLAT ALU 1/2 X 3/4 6061-T6 * FAL-1234 2487 1 X 20' ** CERTIFICATE ** LINE: 4 Heat: 002M170121D M	8.82	20.00	PL_\$CLB		1x20'					

24/



DELIVERY - CLIENT

CO00009643C

Product Description	Qty	Weight	UM	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
5 FLAT ALU 3/8 X 5 6061-T6 * FAL-385 2625 1 X 20' ** CERTIFICATE ** 2 X 12' D9 (OT) M LINE: 6 Heat: 0021170424A	44.00	20.20 24.00	PL \$CLB		2X12					
6 PLATE 4140 HEAT TREAT 1/2 NS P4140-12H 8509 1 PC 1-5/8" X 72" ** CERTIFICATE ** LINE: 7 AC-17571-FU-2018-07-03	16.54	0.81	PI2			B/O				
Total Weight (Lbs): 611.88				NIR : R-109516-6						

Conditions :
All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By : cu	Verified By :	Delivered By : W	Time	Date Y M D 18 07 05
---------------------	---------------	---------------------	------	---------------------------

Customer's Signature



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO040268**

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO040268

PO Date: 6/20/18

Due Date: 6/28/18

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments: QUOTE SOU0113744

REVISED

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1		MT-HRS-P-0.750		Hot Rolled Steel Plate 0.750" (44W) : MATERIAL: HOT ROLLED STEEL SHEET ASTM A36 OR ASTM A1011 OR 44W OR ASTM A1018	Firmed	6/28/18	16 ft	0 ft	16 ft	\$22.3225/ft	\$357.16
Line Item Note: 1 PCS OF 4 FT X 4 FT = 16SF											
2		M6061T6B0.500X10.000		6061-T6 Bar .500 x 10.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	6/28/18	6 ft	0 ft	6 ft	\$18.46/ft	\$110.76
3		M6061T6B0.625X02.000		6061T6 Bar 0.625 X 2.000 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	6/28/18	12 ft	0 ft	12 ft	\$6.1141666/ft	\$73.37

Items											
Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4 ✓ AT		M6061T6B0.500X0.750		6061T6 Bar 0.500 X 0.750 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	6/28/18	20 ft	0 ft	20 ft	\$1.5695/ft	\$31.39
5		M6061T6B2.250X4.000		6061T6 Bar 2.250 X 4.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	6/28/18	12 ft	0 ft	12 ft	\$46.50/ft	\$558.00
6 ✓ AT		M6061T6B0.375X5.000		6061T6 Bar 0.375 X 5.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	6/28/18	20 ft	0 ft	20 ft	\$7.611/ft	\$152.22
7		MT-4140-S-0.500X1.625		4140 Steel Plate 0.500 X 1.625 receive ft	Firmed	7/6/18	6 ft	0 ft	6 ft	\$24.80667/ft	\$148.84
Grand Total:										\$1,431.74	

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 6/21/18 7:23 AM dart.lavoie.chantal

LES ACIERS OUBLETTE INC.
BARRE RECT. ALUM ECONOPLT 6061-T6511
.500" X 10.00" X 144.0000"
PART NO.

PO/Ref AC00007335
Nous certifions que le document reproduit ici est
une copie conforme du rapport fourni par le
fournisseur du matériel ou les données résultent

Certificate of Mill Test Results

BL VIM-514606-002

5Jul17
Pg 1/1

de l'analyse faite par un laboratoire qualifié
SIGNÉ PAR: *BW*

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: VIM-641383-1		CUSTOMER PART NUMBER: W60/STK		PRODUCT DESCRIPTION: .500 X 10.000 PRECISION WIDE BAR	
KAISER ORDER NUMBER: 6030975	LINE ITEM: 001	SHIP DATE: 05/12/2017	KAISER LOT NUMBER: Z00191132	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 1128.000 LB	QUANTITY: 16.000 PCS	B/L NUMBER: 619100	DIAM/DAF/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO:			SOLD TO:		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
200191132	0001	0001	49.3	44.1	12.9	RE 95	N/A	K/A
200191132	0001	0002	50.5	45.3	13.7	RE 95	N/A	N/A
200191132	0001	0003	50.1	45.2	13.3	RE 95	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
107292	.73	.27	.27	.13	.83	.09	.15	.02	.00	.00	.00	.01	.03

Applicable Requirements:

ASTM-B221-14 STENCILED ASME-SB221 2009 SECT II AMS-QQ-A-200/8A UNS#A96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00286395

Kaiser Order Number: 6030975

Line Item: 001

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL 6061 T6/T651/T6510/T6511 62 ALUMINUM BAR

SPECIFICATION:
 QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
 OR ASTM B211 OR AS TM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
 "WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
 2009-08-03
MP

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, AUD	CP	09 07 13
A	ASTM B211/B221 (2N D7-1)	DS	01 06 08
REV.	NEW ISSUE	BY	DATE
DESIGN	DS	DART AEROSPACE LTD	
DRAWN	<i>MP</i>	HAMMERSBURY, ONTARIO, CANADA	
CHECKED	<i>AS</i>	DRAWING NO.	REV. B
MFG. APPR.	<i>MP</i>	M6061T6B	SHEET 1 OF 1
APPROVED	<i>MP</i>	TITLE	SCALE
DE APPR.	<i>MP</i>	6061-T6 BAR	NTS
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 B0.500 x 10.000
 DATE: 18/07/06

PO / BATCH NO.: P0040268 / 5089593

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 6'
 QUANTITY INSPECTED: 6'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500"
 THICKNESS RECEIVED: 0.500"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	ASTM-B221
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	HT: 20011132
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u> <small>DAS</small> DATE: <u>18/07/06</u> <small>2-89</small>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

96430

Dart

17570N



Hydro Extrusion USA, LLC
53 POTTSVILLE STREET
CRESSONA, PA
17929-0187

Certified Test Report

Sales Order Number	Line No.	Customer P/O	Cert Number	Page
1101383006	1	4500883025-00001	HYDRO2869850	1 of 2
			Cert Creation Date	Cert Print Date
			08-MAY-18	08-MAY-18

Quantity Shipped	Date Shipped	Item Description	Specification
3174	08-MAY-18	Extruded Rectangular Bar 0.625 TK x 2.000 W 144 IN LN	ASTMB221 REV 14 AMS-QQ-A-200/8 REV A ASMESB221 REV 09 UNSA96061 REV
B/L	Item No.	FIN M-MILL W/E 1.47 F 04 CS 2.1	
925555	G03361955	6061/T6511	
Delivery Id	Item No. Rev	Marking CONTINUOUS;	
4999104	--		
CustomerPart No.			
160001347			

Applicable Specifications, Revisions and Exceptions

COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on this certified inspection report. Remainder is Aluminum.

Signature And Title

Darrell Wearich
Darrell Wearich

08-MAY-18

Quality Manager

Hydro Extrusion USA, LLC hereby certifies that the metal shipped under this report has been tested in accordance with the identified ASTM and/or ASME specifications and the results of the chemical analysis and mechanical properties tests are within the acceptable ranges of these specifications. Any product warranty is governed by the Extrusion North America Standard Terms and Conditions of Sale posted at www.hydroextrusions.com/termsconditions.

Quantities per Lot / Packages		Lot Number	Quantity	UOM	Weight	
Package Number					Gross	Net
G12-CAP1135653		23164492	30	PCS	539	529
G12-CAP1135655		23164492	30	PCS	539	529
G12-CAP1135668		23164492	30	PCS	539	529
G12-CAP1135669		23164492	30	PCS	539	529
G12-CAP1135672		23164492	30	PCS	539	529
G12-CAP1135673		23164492	30	PCS	539	529

Composition Limits

9-89

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061 T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:
QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-05-03
MAD

B	REMOVE QQ-A-25W11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (2N D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN			
CHECKED	DS		
MFG. APPR.	M6061T6B		
APPROVED	TITLE		
DE APPR.	6061-T6 BAR		
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B	
		SHEET 1 OF 1	
		SCALE	
		NTS	
COPYRIGHT © 2001 BY DART AEROSPACE LTD ALL RIGHTS RESERVED. NO PART OF THIS PUBLICATION MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE LTD.			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B0.625x02.000

PO / BATCH NO.: P0040268 B089594

DATE: 18/07/06

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.625"

QUANTITY RECEIVED: 12'

THICKNESS RECEIVED: 0.625"

QUANTITY INSPECTED: 12'

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y N	ASTM B221
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y N	HT: 23164492
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AM</u>	SIGNED OFF BY: _____
DATE: <u>18/07/06</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

2487



Service Center Metals

5850 Quality Way
Prince George, VA 23875



CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
284260	2

BILL TO	MANIFEST NUMBER	DIE NUMBER	DATE OF SHIPMENT	CERTIFICATION
SHIP TO	321955	RB0091	2/7/2017	ASTM-B221-14 No Stencil
Metaux Specialises Samuel	CUSTOMER PO	ALLOY / TEMPER	SALESPERSON	SPECIFICATION
Quantity Certified	C73927	6061-T6511	D. Schroeder (Canada)	AMS-QQA-200/8 Rev-A
1,058 lbs	CUSTOMER PART NUMBER	DESCRIPTION		
120 pcs	V836312	SCRB .500x.750		

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
			min	max	min
2	201701604	2/1/17	42.40	36.50	18.70
			max	max	max
			43.00	37.20	19.60

880343

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others	Total	Melt Source:
002M170121D	201701604	6061	0.60	0.21	0.19	0.07	0.84	0.07	0.01	0.02	98.00		0.05	0.15
														United States of America

SCM products are melted and extruded in the USA

Print Date: 2/7/2017

Calvin J. Wiggins

Calvin J. Wiggins, Director of Quality & Technical Services

Rev 9/9/16

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T651/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/B OR AMS-QQ-A-225/B OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160
OR ~~ASTM B221~~ OR ~~ASTM B221~~

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-05-03

B		REVOLVE QQ-A-225/B OPTION REFORMAT NOTES, ADD ASTM B221/B221 (Zn DP1)		CP	09 07 13
A		NEW ISSUE		DS	01 06 08
REV		DESCRIPTION		RY	DATE
DESIGN	DS	DART AEROSPACE LTD			
DRAWN	DS	HAWKESBURY, ONTARIO, CANADA			
CHECKED	DS	DRAWING NO			
MFG APPR	DS	M6061T6B			
APPROVED	DS	TITLE			
DE APPR	DS	6061-T6 BAR			
DATE	09.07.13	SCALE			
		NTS			
COPYRIGHT © 2001 BY DART AEROSPACE LTD					

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M606176BD.500X20.750

PO / BATCH NO.: P0040268/5089515

DATE: 18/07/06

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.500"

QUANTITY RECEIVED: 20'

THICKNESS RECEIVED: 0.500"

QUANTITY INSPECTED: 20'

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	MT: AMS-QQA-200/8
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	MT: 002M17D121D
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>AT</u>	DAS S	SIGNED OFF BY: _____	
DATE: <u>18/07/06</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

007514

Certificate of Mill Test Results

BL PRC-054007-001
12Jul17
Pg 1/1

r'O,ReI AC00007514

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

ACIER OUELLETTE DIV.-VALLEYFIELD

BARRE RECT. ALUMINIUM 6061-T6S11

PART NO.



1990

Service Center Metals

5850 Quality Way.

Prince George, VA 23875



CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

920655	11
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Bill To	MANIFEST NUMBER	DATE OF SHIPMENT
Bill To	332887	5/17/2017
	CUSTOMER PO	SALES PERSON
	PEC-282695	D. Schroeder (Canada)
	CUSTOMER PART NUMBER	ALLOY/TENSILE
	RB0089 X 240	6061-T6511
Quantity Certified	2,072 lbs	DESCRIPTION
	47 pcs	SCRB .375x5.000

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties

Tests	Lot No.
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
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90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Mechanical Properties		Test Date	Ultimate Tensile Strength (KSI)		Yield Strength (KSI)		Percent Elongation
Tests	Lot No.		min	max	min	max	
1	201707617	5/9/17	44.90	44.90	40.70	40.70	17.90
							17.9

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others		Melt Source:
												Each	Total	
002.1170424A	201707617	6061	0.63	0.23	0.18	0.06	0.84	0.07	0.03	0.02	97.95	0.05	0.15	United States of America

SCM products are melted and extruded in the USA

Print Date: 5/17/2017

Cyril L. Wines, Director of Quality & Technical Services

Doc No. 258412 Indexed 19May17 by alssup1

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL 6061-T6/T651/T651Q/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/B OR AMS-QQ-A-225/B (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B T TTT X WW WWW
THICK WIDTH

WHERE "T TTT" = THICKNESS IN INCHES
"WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-09-03

B	REMOVE QQ-A-250/11 OPTION REFORMAT NOTES ADD ASTM B211/B221 (2N D7-1)	CP	09 07 13
A	NEW ISSUE	DS	01 08 08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN			
CHECKED	DS		
MFG. APPR.	DS		
APPROVED	DS		
DE APPR.	DS		
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6B			
TITLE 6061-T6 BAR			
REV. B			
SHEET 1 OF 1			
SCALE NTS			
COPYRIGHT © 2009 BY DART AEROSPACE LTD			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M 6061 T680.375X5.000

PO / BATCH NO.: P0 040268/5089596

DATE: 18/07/06

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.375"

QUANTITY RECEIVED: 24'

THICKNESS RECEIVED: 0.375"

QUANTITY INSPECTED: 24'

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	AMS-QQA-20018
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	MT-002 J170424A
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u> DAS 9 3-05 DATE: <u>18/07/06</u>	SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

OUTSTANDING CAPITAL : 3.500.000.000 TL

CUSTOMER

ORDER NO : 78602113707

DIMENSIONS, mm

STANDARD & GRADE

PRODUCT TYPE & DEFINITION

19.050 X 2438 X 6096 (0.750 X 96 X 240 INCH)

CSA G40.21-13 / ASTM A572-15 300W/350W / GR50 TYPE 2 (ERDEMİR 3246)

HEAT: 725249

XX HOT ROLLED HEAVY PLATE WITH MILL EDGE

2592 NO MERCURY COMPOUNDS NO WELD REPAIR
FULLY KILLED AND FINE GRAIN PRACTICE

PRODUCT INFORMATION				MECHANICAL PROPERTIES				CHEMICAL COMPOSITION, CAST ANALYSIS																					
TICKET NO	WEIGHT (MT)	HEAT NO	COIL or PLATE NO	P.S. or P.P.	ISAR or P.P.	TENSILE TEST		BEND or TEST	Ag or BH	Y/T or F	HARDNESS	TEMPERATURE TEST			HIGH TEMP °C	CHEMICAL COMPOSITION, CAST ANALYSIS													
						YIELD STRENGTH N/MM2	TENSILE STRENGTH N/MM2					1	2	3		AVR	TEMP °C	YIELD N/MM2	C %	MN %	P %	S %	SI %	AL %	CU %	NI %	V %	N %	PPM
725246			725246205001101	TT		385.4	560.0	27								0.190	1.261	0.016	0.005	0.174	0.026	0.022	0.041	0.078	50				
725246			725246205001201	TT		385.4	560.0	27								0.190	1.261	0.016	0.005	0.174	0.026	0.022	0.041	0.078	50				
725254			725254207001101	TT		385.4	557.0	28								0.199	1.238	0.018	0.005	0.182	0.031	0.026	0.040	0.073	47				
725254			725254207001201	TT		385.4	557.0	28								0.198	1.238	0.018	0.005	0.182	0.031	0.026	0.040	0.073	47				
725254			725254207002101	TT		374.6	548.2	29								0.198	1.238	0.018	0.005	0.182	0.031	0.026	0.040	0.073	47				
725254			725254207002201	TT		374.6	548.2	29								0.199	1.238	0.018	0.005	0.182	0.031	0.026	0.040	0.073	47				
725245			725245187831010	6																									
725245			725246205002101	TT		372.7	557.0	26								0.190	1.261	0.018	0.005	0.174	0.026	0.022	0.041	0.078	50				
725246			725246205002201	TT		372.7	557.0	26								0.190	1.261	0.018	0.005	0.174	0.026	0.022	0.041	0.078	50				
725249			725249201002101	TT		388.3	560.0	28								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44				
725249			725249201002201	TT		388.3	560.0	28								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44				
725249			725249201003101	TT		375.6	555.1	29								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44				
725249			725249201003201	TT		375.6	555.1	29								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44				
725249			725249208001101	5																									
725249			725249208001201	TT		388.3	560.0	28								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44				
725249			725249208002101	TT		388.3	560.0	28								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44				
725249			725249208002201	TT		375.6	555.1	29								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44				
725251			725251204002101	TT		380.5	552.1	29								0.184	1.273	0.021	0.005	0.178	0.025	0.031	0.040	0.078	47				
725251			725251204002201	TT		380.5	552.1	29								0.184	1.273	0.021	0.005	0.178	0.025	0.031	0.040	0.078	47				

WE (THE MANUFACTURER), HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE BY THE BASIC OXYGEN PROCESS AND TESTED IN ACCORDANCE WITH THE RULES OF CSA G40.21-13 / ASTM A572-15 300W/350W / GR50 TYPE 2 (ERDEMİR 3246) WITH SATISFACTORY RESULTS



NOTE: T: Top, M: Middle, E: End, T: Transverse, L: Longitudinal, P: S: Piece of Steel, P: Piece of Plate
MERSİS Number: (İstanbul Head Office): 0352-0006-4260-0020; Trade Registry Number: (İstanbul Department): 50659; Trade Registry Number (Ereğli Department): 1573727
Head Office: İstanbul, Sarıyer Mah. Ardiç Sok. No: 6 34746 Atışhanı (İSTANBUL - TURKEY)



www.erdemir.com.tr

OUTSTANDING CAPITAL : 3.500.000.000 TL

CUSTOMER

ORDER NO : 78802713707

DIMENSIONS, mm

STANDARD & GRADE : CSA G40.21-13 / ASTM A572-15 300W/350W / GR50 TYPE 2 (ERDEMİR 3248)

PRODUCT TYPE & DEFINITION : LKX : HOT ROLLED HEAVY PLATE WITH MILL EDGE

2552 NO MERCURY COMPOUNDS NO WELD REPAIR
FULLY KILLED AND FINE GRAIN PRACTICE

PRODUCT INFORMATION				MECHANICAL				CHEMICAL COMPOSITION, CAST ANALYSIS																		
TICKET NO	WEIGHT (MT)	HEAT NO	COIL or PLATE NO	P.S or P.P	ISAM	TENSILE TEST	BEND or TEST	Ag or SH	Y/T or INESS	1	2	3	AIR TEM °C	YIELD N/MM2	HIGH TEMP °C	C	MN	P	S	SI	AL	CU	NI	V	N	PPM
0237036061 (13,680)	725251	70230187861010	6	TT	380.5	552.1	29							10.184	1.273	0.021	0.005	0.176	0.025	0.031	0.040	0.078				47
	725251	72525120300120	IT	380.5	552.1	29								10.184	1.273	0.021	0.005	0.178	0.025	0.031	0.040	0.078			47	
	725251	72525120300210	IT	382.3	569.8	27								10.184	1.273	0.021	0.005	0.178	0.025	0.031	0.040	0.078			47	
	725251	72525120300220	IT	382.3	569.8	27								10.184	1.273	0.021	0.005	0.178	0.025	0.031	0.040	0.078			47	
	725251	72525120300310	IT	380.5	552.1	29								10.184	1.273	0.021	0.005	0.179	0.025	0.031	0.040	0.078			47	
	725251	72525120300320	IT	380.5	552.1	29								10.184	1.273	0.021	0.005	0.178	0.025	0.031	0.040	0.078			47	
0237036062 (13,680)	725249	70230187870101	6	TT	375.6	555.1	29							10.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080			44	
	725249	72524920500310	IT	375.6	555.1	29								10.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080			44	
	725251	72525120400110	IT	382.3	569.8	27								10.184	1.273	0.021	0.005	0.178	0.025	0.031	0.040	0.078			47	
	725251	72525120400120	IT	382.3	569.8	27								10.184	1.273	0.021	0.005	0.178	0.025	0.031	0.040	0.078			47	
	725251	72525120400310	IT	382.3	569.8	27								10.184	1.273	0.021	0.005	0.178	0.025	0.031	0.040	0.078			47	
	725251	72525120400320	IT	382.3	569.8	27								10.184	1.273	0.021	0.005	0.178	0.025	0.031	0.040	0.078			47	
0237036063 (13,710)	725246	70230187880101	6	TT	372.7	557.0	28							10.190	1.261	0.016	0.006	0.174	0.026	0.022	0.041	0.078			50	
	725246	72524620600310	IT	372.7	557.0	26								10.190	1.261	0.016	0.006	0.174	0.026	0.022	0.041	0.078			50	
	725249	72524920600310	IT	388.3	560.0	28								10.199	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080			44	
	725249	72524920600320	IT	388.3	560.0	28								10.199	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080			44	
725254	72525420700310	IT	385.4	560.0	28									10.199	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080			44	

WE (THE MANUFACTURER) HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE BY THE BASIC OXYGEN PROCESS AND TESTED IN ACCORDANCE WITH THE RULES OF CSA G40 21-13 / ASTM A572-15 300W/350W / GR50 TYPE 2 (ERDEMİR 3246) WITH SATISFACTORY RESULTS



NOTE: T. Top, M. Middle, E. End, T. Transverse, L. Longitudinal, P. S. Piece of Slice, P. P. Piece of Plate
MESSIS Number (Istanbul Head Office): 0352-0006-4260-0020 Trade Registry Number (Istanbul Department): 90659 Trade Registry Number (Erzincan Department): 15741272
Head Office: Istanbul: Barbaros Mah. No. 6 34748 Alışehir (ISTANBUL - TURKEY)



OUTSTANDING CAPITAL : 3.500.000.000 TL

TEST CERTIFICATE
EN 10204 : 2004 TYPE 3.1

DATE : 16/08/2017
CERTIFICATE NO : 71275251
PAGE NO

CUSTOMER :
ORDER NO : 78602713707
DIMENSIONS, mm : 10.050 X 2438 X 6096 (0.750 X 96 X 240 INCH)
STANDARD & GRADE : CSA G40.21-13 / ASTM A572-15 300W/350W / GR50 TYPE 2(ERDEMİR 3246)
PRODUCT TYPE & DEFINITION : LKX : HOT ROLLED HEAVY PLATE WITH MILL EDGE

2552 NO MERCURY COMPOUNDS NO WELD REPAIR
FULLY KILLED AND FINE GRAIN PRACTICE

PRODUCT INFORMATION				MECHANICAL TEST				CHEMICAL COMPOSITION, CAST ANALYSIS																	
TICKET NO	WEIGHT (MT)	HEAT NO	COIL or PLATE NO	P.S. or P.P.	TENSILE TEST	BEND or TEST	Y/T or B4	Ag or B4	Y/T or B4	HARDNESS	1	2	3	AVR TEM °C	HIGH TEMP °C	C	NI	CU	NI	V	N	PPM			
					YIELD STRENGTH N/mm2	ELONGATION %	VAL.	VAL.	VAL.								%	%	%	%	%				
0237038064	13.580	725249	72524920700320	6	TT 385.4 557.0 28											0.199	1.238	0.018	0.005	0.182	0.031	0.026	0.040	0.073	47
		725249	7023018789L010																						
		725249	72524920100110		TT 375.6 555.1 29											0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44
		725249	72524920100120		TT 375.6 555.1 29											0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44
		725249	72524920300110		TT 375.6 555.1 29											0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44
		725249	72524920300120		TT 375.6 555.1 29											0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44
		725249	72524920300210		TT 388.3 560.0 28											0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44
		725249	72524920300220		TT 388.3 560.0 28											0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44
0237038066	13.690	725249	7023018790L010	6																					
		725249	72524920300310		TT 375.6 555.1 29											0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44
		725249	72524920300320		TT 375.6 555.1 29											0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44
		725249	72524920400110		TT 388.3 560.0 28											0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44
		725249	72524920400120		TT 388.3 560.0 28											0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44
		725249	72524920400210		TT 375.6 555.1 29											0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44
		725249	72524920400220		TT 375.6 555.1 29											0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44
0237038067	13.670	725249	7023018791L010	6																					
		725249	72524920400310		TT 388.3 560.0 28											0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44
		725249	72524920400320		TT 388.3 560.0 28											0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44
		725249	72524920500210		TT 388.3 560.0 28											0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44
		725249	72524920500220		TT 388.3 560.0 28											0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44

YATIRIM MENKUL DEĞERLER A.Ş. ÇELİK FABRİKASI T.A.Ş.
OUTSTANDING CAPITAL : 3.500.000.000 TL

TEST CERTIFICATE

DATE : 18/08/2017
CERTIFICATE NO : 71275251
PAGE NO

CUSTOMER
ORDER NO : 78602713707
DIMENSIONS, mm : 19.050 X 2438 X 6096 (0.750 X 98 X 240 INCH)
STANDARD & GRADE : CSA G40.21-13 / ASTM A572-15 300W/350W / GR50 TYPE 2 (ERDEMİR 3246)
PRODUCT TYPE & DEFINITION : LKX : HOT ROLLED HEAVY PLATE WITH MILL EDGE

2592 NO MERCURY COMPOUNDS NO WELD REPAIR
FULLY KILLED AND FINE GRAIN PRACTICE



PRODUCT INFORMATION				MECHANICAL TESTS				CHEMICAL COMPOSITION, CAST ANALYSIS														
TICKET NO/WEIGHT (MT)	HEAT NO	COIL OR PLATE NO	P.S or P.P	TENSILE TEST		BEND or ISAM TEST	Ag or BH VAL	YIT or HARD VAL	HAZARD TEST POSITION		HIGH TEMP °C	C %	Mn %	P %	S %	SI %	AL %	CU %	NI %	V %	N PPM	
				YIELD STRENGTH N/MM2	TENSILE N/MM2				1	2												3
0237038068/13.660	725249	72524920600310	TT	388.3	560.0 28	TT	388.3 560.0 28					0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
	725249	72524920600320	TT	388.3	560.0 28	TT	388.3 560.0 28					0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
	725245	72524920600110	TT	388.3	560.0 28	TT	388.3 560.0 28					0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
	725249	72524920700110	TT	375.6	555.1 29	TT	375.6 555.1 29					0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
	725249	72524920700120	TT	375.6	555.1 29	TT	375.6 555.1 29					0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
	725249	72524920700210	TT	388.3	560.0 28	TT	388.3 560.0 28					0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
0237038068/13.640	725249	72524920700220	TT	388.3	560.0 28	TT	388.3 560.0 28					0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
	725246	7023018793L010	6																			
	725246	72524620200310	TT	372.7	557.0 26	TT	372.7 557.0 26					0.190	1.261	0.018	0.006	0.174	0.026	0.022	0.041	0.078	50	
	725246	72524620200320	TT	372.7	557.0 26	TT	372.7 557.0 26					0.190	1.261	0.018	0.006	0.174	0.026	0.022	0.041	0.078	50	
	725246	72524620400210	TT	385.4	560.0 27	TT	385.4 560.0 27					0.190	1.261	0.018	0.006	0.174	0.026	0.022	0.041	0.078	50	
	725246	72524620400220	TT	385.4	560.0 27	TT	385.4 560.0 27					0.190	1.261	0.018	0.006	0.174	0.026	0.022	0.041	0.078	50	
0237038070/13.720	725245	72524620500310	TT	385.4	560.0 27	TT	385.4 560.0 27					0.180	1.261	0.018	0.006	0.174	0.026	0.022	0.041	0.078	50	
	725245	72524620500320	TT	385.4	560.0 27	TT	385.4 560.0 27					0.180	1.261	0.018	0.006	0.174	0.026	0.022	0.041	0.078	50	
	725246	7023018794L010	6																			
	725246	72524620100210	TT	372.7	557.0 26	TT	372.7 557.0 26					0.190	1.261	0.018	0.006	0.174	0.026	0.022	0.041	0.078	50	
	725246	72524620100220	TT	372.7	557.0 26	TT	372.7 557.0 26					0.190	1.261	0.018	0.006	0.174	0.026	0.022	0.041	0.078	50	
	725246	72524620100310	TT	385.4	560.0 27	TT	385.4 560.0 27					0.190	1.261	0.018	0.006	0.174	0.026	0.022	0.041	0.078	50	

WE (THE MANUFACTURER) HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE BY THE BASIC OXYGEN PROCESS AND TESTED IN ACCORDANCE WITH THE RULES OF CSA G40.21-13 / ASTM A572-15 300W/350W / GR50 TYPE 2 (ERDEMİR 3246) WITH SATISFACTORY RESULTS



NOTE: T: Top, M: Middle, E: End, Y: Transverse, L: Longitudinal, P: S: Piece of Slice, D: Piece of Plate
MERIS Number (Istanbul Head Office): 0352-0006-4260-0020, Trade Registry Number (Istanbul Department): 90659; Trade Registry Number (Ereğli Department): 1574727
Head Office: İstanbul; Barbaros Man. Aritç Sok. No: 6 34746 Alışehir İSTANBUL - TURKEY



www.erdemir.com.tr

OUTSTANDING CAPITAL : 3.500.000.000 TL

TEST CERTIFICATE
EN 10204 : 2004 TYPE 3.1

DATE : 16/08/2017
CERTIFICATE NO : 71275251
PAGE NO

CUSTOMER : 78602713707
ORDER NO : 19.050 X 2438 X 6096 (0.750 X 96 X 240 INCH)
DIMENSIONS, mm : CSA G40.21-13 / ASTM A572-15 300W/350W / GR50 TYPE 2(ERDEMİR 3246)
STANDARD & GRADE :
PRODUCT TYPE & DEFINITION : LKX : HOT ROLLED HEAVY PLATE WITH MILL EDGE

2592
FULLY KILLED AND FINE GRAIN PRACTICE

PRODUCT INFORMATION				MECHANICAL PROPERTIES						CHEMICAL COMPOSITION, CAST ANALYSIS																
TICKET NO	WEIGHT (MT)	HEAT NO	COIL or PLATE NO	P.S. or P.P	ISAM C/P	TENSILE TEST			BEND TEST	Ag or BH	YIT or HARDNESS	POSITION			HIGH TEMP °C	YIELD NIMMZ	C %	Mn %	P %	S %	Si %	AL %	CU %	Ni %	V %	N PPM
						STRENGTH NIMMZ	YIELD NIMMZ	EL				1	2	3												
0237038073	13.680	725246	725246201003201	TT		385.4	560.0	27									0.190	1.261	0.018	0.005	0.174	0.026	0.022	0.041	0.078	50
		725246	725246202001101	TT		372.7	557.0	26									0.190	1.261	0.018	0.006	0.174	0.026	0.022	0.041	0.078	50
		725246	725246203001201	TT		372.7	557.0	26									0.190	1.261	0.018	0.006	0.174	0.026	0.022	0.041	0.078	50
		725249	725249202001101	TT		388.3	560.0	28									0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44
		725249	725249202001201	TT		388.3	560.0	28									0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44
		725249	725249202002101	TT		375.6	555.1	29									0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44
0237038072	13.720	725249	725249202002201	TT		375.6	555.1	29								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
		725249	725249202003101	TT		388.3	560.0	28								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
		725249	725249202003201	TT		388.3	560.0	28								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
		725249	725249202003301	TT		375.6	555.1	29								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
		725249	725249202003401	TT		375.6	555.1	29								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
		725249	725249202003501	TT		375.6	555.1	29								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
0237038073	13.736	725249	725249202001101	TT		375.6	555.1	29								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
		725249	725249202001201	TT		375.6	555.1	29								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
		725249	725249202002101	TT		375.6	555.1	29								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
		725249	725249202002201	TT		375.6	555.1	29								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
		725249	725249202003101	TT		375.6	555.1	29								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
		725249	725249202003201	TT		375.6	555.1	29								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
0237038073	13.760	725246	725246207001101	TT		372.7	557.0	26								0.190	1.261	0.018	0.006	0.174	0.026	0.022	0.041	0.078	50	
		725246	725246207001201	TT		372.7	557.0	26									0.190	1.261	0.018	0.006	0.174	0.026	0.022	0.041	0.078	50

WE (THE MANUFACTURER) HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE BY THE BASIC OXYGEN PROCESS AND TESTED IN ACCORDANCE WITH THE RULES OF CSA G40.21-13 / ASTM A572-15 300W/350W / GR50 TYPE 2(ERDEMİR 3246) WITH SATISFACTORY RESULTS



NOTE: T Top, M Middle, E End, L Transverse, L Longitudinal, P S Piece of Steel, P P Piece of Plate
MESUR (Istanbul Head Office): 0352-0068-4260-0020; Trade Registry Number (Istanbul Department): 30659; Trade Registry Number (Ereğli Department): 1574774
Head Office: Istanbul: Barbaros Mah. Aidiç Sok. No: 6 34746 Alagebir İSTANBUL - TURKEY
www.erdemir.com.tr

1 2 3 4 5 6 7 8

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
B	REMOVED LENGTH AND WIDTH DIMENSIONS	17-675	26/09/2017	SAC	WM

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL:

SPECIFICATION:

PART NUMBER:

EXAMPLE:

HOT ROLLED STEEL PLATE

ASTM A36 OR ASTM A1011 OR 44W OR ASTM A1018

MT-HRS-P-[T.TTT]

WHERE T.TTT IS PLATE THICKNESS IN INCHES

MT-HRS-P-0.750

TOLERANCES PER MANUFACTURER SPECIFICATIONS



TITLE		HOT ROLLED STEEL PLATE	
SHEET NO.		REV	
DESIGN BY: SAC 09/27/2017		FRACTIONS 1/16	
DRAWN BY: VM 09/27/2017		SURFACES 1	
CHECKED: VM 09/27/2017		SURFACES 1/16	
MFG. APPR: OP 09/27/2017		1. DIMENSIONS ARE IN INCHES	
APPROVED: WM 10/05/2017		2. INTERPRET DIM AND TOL PER	
DATE: 9/27/2017		3. ASME Y14.5M 2009	
SCALE: NTS		4. DIMENSIONS UNLESS OTHERWISE SPECIFIED	
WEIGHT: N/A		5. AFTER PLATING	
SHEET 1 OF 1		COPYRIGHT © 2017 BY DART AEROSPACE LTD.	
THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-HRS-P-0.750
DATE: 18/07/12

PO / BATCH NO.: PO 040268 / 5089592

MATERIAL CERT REC'D: yes
QUANTITY RECEIVED: 16sf
QUANTITY INSPECTED: 16sf
QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750"
THICKNESS RECEIVED: 0.750"
SHEET SIZE ORDERED: 4'x4'
SHEET SIZE RECEIVED: 4'x4'

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	Y <input checked="" type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/> N	A572, A572 acceptable use for LB only. PD.
CORRECT THICKNESS	Y <input checked="" type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/> N	HT: 725249
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>AT</u> <u>PD</u>	SIGNED OFF BY: _____		
DATE: <u>18/07/12</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in